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PATENT

ALLOWED CLAIMS

- a composite heavy chain and a complementary light chain, said composite heavy chain having a variable domain including complementarity determining regions (CDRs), said variable domain comprising predominantly human acceptor antibody heavy chain framework residues, the remaining heavy chain residues corresponding to the equivalent residues in a donor antibody having affinity for said predetermined antigen, wherein, according to the Kabat numbering system, in said composite heavy chain: said CDRs comprise donor residues at least at residues 31 to 35, 50 to 58, and 95 to 102; and amino acid residues 6, 23, 24, and 49 at least are donor residues, provided that said composite heavy chain does not comprise the amino acid sequence of SEQ ID NO: 31.
- 121. The antibody molecule of claim 120, wherein amino acid residues 26 to 30 and 59 to 65 in said composite heavy chain are additionally donor residues.
- 122. The antibody molecule of claim 120, wherein amino acid residues 71, 73, and 78 in said composite heavy chain are additionally donor residues.
- 123. The antibody molecule of claim 120, wherein at least one of amino acid residues1, 3, and 76 in said composite heavy chain are additionally donor residues.

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124. The antibody molecule of claim 120, wherein at least one of amino acid residues36, 94, 104, 106, and 107 in said composite heavy chain are additionally donor residues.

- 125. The antibody molecule of claim 124, wherein at least one of amino acid residues 2, 4, 38, 46, 67, and 69 in said composite heavy chain are additionally donor residues.
- 126. The antibody molecule of claim 120, wherein said complementary light chain is a composite light chain having a variable domain including complementarity determining regions (CDRs), said variable domain comprising predominantly human acceptor antibody light chain framework residues, the remaining light chain residues corresponding to the equivalent residues in a donor antibody having affinity for said predetermined antigen, wherein, according to the Kabat numbering system, in said composite light chain; said CDRs comprise donor residues at least at residues 24 to 34, 50 to 56, and 89 to 97; and amino acid residues 46, 48, 58, and 71 at least are donor residues.
- 127. The antibody molecule of claim 126, wherein amino acid residues 1, 3, 60 (if this residue can form a salt bridge with residue 54), and 70 (if this residue can form a salt bridge with residue 24) in said composite light chain are additionally donor residues.